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ANNOTATED CLAIMS 12 July 2005

In my application number 08/1477 704 titled "Reciprocating Elements and Associated Fluid Flows" filed on June 7 1995 under group art 3747, WHAT I Mitja Victor Hinderks CLAIM IS:

1-389 (Cancelled) *Claims 1 to 389 are cancelled.*

390. (Original) *A device for the working of fluids, said device comprising a housing with a cylinder assembly mounted therein, at least one component assembly mounted to reciprocate within said cylinder assembly, said cylinder assembly having at least one first working surface and said component assembly having at least one second working surface such that said working surfaces in operation are approximately parallel and co-axial and variably spaced, said surfaces partly defining at least one fluid working chamber varying in capacity during an operating cycle of said device, means deployed between said cylinder assembly and said component assembly to cause said component assembly and said second surface to rotate while reciprocating relative to said cylinder assembly and said first surface, said device including structure which defines a volume substantially surrounding said cylinder assembly, in operation said volume functioning as a passage for fluids worked by said device.*
391. (Original) *The device of claim 390, said cylinder assembly being rotatably mounted in said housing.*
392. (Currently Amended) *A reciprocating internal combustion engine, including (a fuel delivery system, an exhaust emission control system and) the device of claim 390, said engine having a system for supplying charge and fuel to said working chamber.*
393. (Original) *The engine of claim 392, said cylinder assembly being rotatably mounted in said housing.*
394. (Original) *A compound engine comprising the engine of claim 392, at least one other engine of another type, and a second means for transferring work between each of said at least two engines.*
395. (Currently Amended) *The compound engine of claim 394, wherein said second means includes the flow of heated gases in a conduit between said engines.*
396. (Original) *The device of claim 390, wherein said component assembly defines a passage for fluids*

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worked by said device.

397. (Cancelled) *Claim 397 is cancelled.*

398. (Original) *The engine of claim 392, wherein said component assembly defines a passage for fluids worked by said device.*

399. (Cancelled) *Claim 399 is cancelled.*

400. (Original) *The engine of claim 398, including filamentary material within said passage.*

401. (Original) *The engine of claim 392, including filamentary material within said volume.*

402. (Original) *The engine of claim 400, wherein said filamentary material is catalytic to expedite reactions between portions of the working fluids.*

403. (Original) *The engine of claim 401, wherein said filamentary material is catalytic to expedite reactions between portions of the working fluids.*

404. (Original) *The device of claim 390, including insulating material at least partially encasing said device, for purpose of reducing heat loss from said fluid working chamber.*

405. (Original) *The engine of claim 392, including insulating material at least partially encasing said engine, for purpose of reducing heat loss from said fluid working chamber.*

406. (Original) *The device of claim 390, wherein said cylinder assembly is formed at least in part of ceramic material.*

407. (Original) *The device of claim 390, wherein said component assembly is formed at least in part of ceramic material.*

408. (Original) *The device of claim 390, wherein said component assembly has a first distinct surface and said cylinder assembly a second distinct surface, in operation said distinct surfaces being approximately constantly spaced from and approximately parallel to one another, at least one of said distinct surfaces defining at least one manufactured depression in operation wholly fillable by fluids worked by said device.*

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409. (Original) *The device of claim 390, wherein said cylinder assembly is comprised of portions including at least one element, each said element holding said portions together and being pre-loaded under tension.*
410. (Original) *The device of claim 409, wherein said element is of tubular form.*
411. (Original) *The device of claim 390, wherein said component assembly is comprised of portions including at least one element, each said element holding said portions together and being pre-loaded under tension.*
412. (Original) *The device of claim 411, wherein said element is of tubular form.*
413. (Original) *The engine of claim 392, wherein said cylinder assembly is formed at least in part of ceramic material.*
414. (Original) *The engine of claim 392, wherein said component assembly is formed at least in part of ceramic material.*
415. (Original) *The engine of claim 413, including at least one electrical circuit within said ceramic material.*
416. (Original) *The engine of claim 414, including at least one electrical circuit within said ceramic material.*
417. (Currently Amended) *The rotatable shaft, mechanism and device of claim 552, in which work is transferred from said device to said shaft in said mechanism (comprises) by a series of splines slidably mounted on another series of splines.*
418. (Currently Amended) *The rotatable shaft, mechanism and device of claim 552 including rollers, in which work is transferred from said device to said shaft in said mechanism (comprises) by a series of flanges slidably mounted on another series of flanges, said two series of flanges being separated by said rollers.*
419. (Currently Amended) *The rotatable shaft, mechanism and device of claim 552, wherein work is transferred from said device to said shaft in said mechanism (comprises) by at least one bellows.*
420. (Currently Amended) *The rotatable shaft, mechanism and device of claim 552, wherein work is*

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transferred from said device to said shaft in said mechanism (comprises) by at least one hinged element.

421. (Currently Amended) *The device of claim 390, wherein said means comprise a guide restrained by a single endless substantially sinusoidal path, one of each guide and path being on said component assembly, the other on said cylinder assembly.*
422. (Original) *The device of claim 421, wherein said guide is a roller of truncated conical configuration.*
423. (Currently Amended) *The engine of claim 392, wherein said means comprise a guide restrained by a single endless substantially sinusoidal path, one of each guide and path being on said component assembly, the other on said cylinder assembly.*
424. (Original) *The engine of claim 423, wherein said guide is a roller of truncated conical configuration.*
425. (Original) *The device of claim 390, wherein said fluid working chamber is at least partially of toroidal configuration.*
426. (Original) *The engine of claim 392, wherein said fluid working chamber is at least partially of toroidal configuration*
427. (Original) *The engine of claim 393, wherein said housing comprises insulating material for purpose of reducing heat loss from said fluid working chamber.*
428. (Original) *The device of claim 390, wherein said component assembly consists of one monolithic piece.*
429. (Currently Amended) *The device of claim 390, wherein said component assembly has a projecting portion which at least partly penetrates a portion of said cylinder assembly during at least part of said cycle.*
430. (Currently Amended) *The engine of claim 392, wherein said component assembly has a projecting portion which at least partly penetrates a portion of said cylinder assembly during at least part of said cycle.*

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431. (Original) A rotatable shaft, a mechanism and device for the working of fluids, said device comprising a housing with a cylinder assembly mounted therein, at least one component assembly mounted to reciprocate within said cylinder assembly, said cylinder assembly having at least one first working surface and said component assembly having at least one second working surface such that said working surfaces in operation are approximately parallel and co-axial and variably spaced, said surfaces partly defining at least one fluid working chamber varying in capacity during an operating cycle of said device, means deployed between said cylinder assembly and said component assembly to cause said component assembly and said second surface to rotate while reciprocating relative to said cylinder assembly and said first surface, said component assembly being linked to said shaft by said mechanism, said mechanism causing said shaft to only rotate while said component assembly reciprocates and rotates, said cylinder assembly being rotatably mounted in said housing.

432 (Currently Amended) A reciprocating internal combustion engine, including (a fuel delivery system, an exhaust emission control system and) the device of claim 431, said engine having a system for supplying charge and fuel to said working chamber.

433. (Original) A compound engine comprising the engine of claim 432, at least one other engine of another type, and a second means for transferring work between each of said at least two engines.

434. (Currently Amended) The compound engine of claim 433, wherein said second means includes the flow of heated gases in a conduit between said engines.

435. (Original) The device of claim 431, wherein said component assembly defines a passage for fluids worked by said device.

436. (Original) The device of claim 431, including structure which defines a volume substantially surrounding said cylinder assembly, in operation said volume functioning as a passage for fluids worked by said device.

437. (Original) The engine of claim 432, wherein said component assembly defines a passage for fluids worked by said device.

438. (Original) The engine of claim 432, including structure which defines a volume substantially surrounding said cylinder assembly, in operation said volume functioning as a passage for fluids worked by said device.

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439. (Original) *The engine of claim 437, including filamentary material within said passage.*
440. (Original) *The engine of claim 438, including filamentary material within said volume.*
441. (Original) *The engine of claim 439, wherein said filamentary material is catalytic to expedite reactions between portions of the working fluids.*
442. (Original) *The engine of claim 440, wherein said filamentary material is catalytic to expedite reactions between portions of the working fluids.*
443. (Original) *The device of claim 431, including insulating material at least partially encasing said device, for purpose of reducing heat loss from said fluid working chamber.*
444. (Original) *The engine of claim 432, including insulating material at least partially encasing said engine, for purpose of reducing heat loss from said fluid working chamber.*
445. (Original) *The device of claim 431, wherein said cylinder assembly is formed at least in part of ceramic material.*
446. (Original) *The device of claim 431, wherein said component assembly is formed at least in part of ceramic material.*
447. (Original) *The device of claim 431, wherein said component assembly has a first distinct surface and said cylinder assembly a second distinct surface, in operation said distinct surfaces being approximately constantly spaced from and approximately parallel to one another, at least one of said distinct surfaces defining at least one manufactured depression in operation wholly fillable by fluids worked by said device.*
448. (Original) *The device of claim 431, wherein said cylinder assembly is comprised of portions including at least one element, each said element holding said portions together and being pre-loaded under tension.*
449. (Original) *The device of claim 448, wherein said element is of tubular form.*
450. (Original) *The device of claim 431, wherein said component assembly is comprised of portions including at least one element, each said element holding said portions together and being pre-loaded under tension.*

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451. (Original) *The device of claim 450, wherein said element is of tubular form.*
452. (Original) *The engine of claim 432, wherein said cylinder assembly is formed at least in part of ceramic material.*
453. (Original) *The engine of claim 432, wherein said component assembly is formed at least in part of ceramic material.*
454. (Original) *The engine of claim 452, including at least one electrical circuit within said ceramic material.*
455. (Original) *The engine of claim 453, including at least one electrical circuit within said ceramic material.*
456. (Currently Amended) *The rotatable shaft, mechanism and device of claim 431, in which work is transferred from said device to said shaft in said mechanism (comprises) by a series of splines slidably mounted on another series of splines.*
457. (Currently Amended) *The rotatable shaft, mechanism and device of claim 431 including rollers, in which work is transferred from said device to said shaft in said mechanism (comprises) by a series of flanges slidably mounted on another series of flanges, said two series of flanges being separated by said rollers.*
458. (Currently Amended) *The rotatable shaft, mechanism and device of claim 431, wherein work is transferred from said device to said shaft in said mechanism (comprises) by at least one bellows.*
459. (Currently Amended) *The rotatable shaft, mechanism and device of claim 431, wherein work is transferred from said device to said shaft in said mechanism (comprises) by at least one hinged element.*
460. (Currently Amended) *The device of claim 431, wherein said means comprise a guide restrained by a single endless substantially sinusoidal path, one of each guide and path being on said component assembly, the other on said cylinder assembly.*
461. (Original) *The device of claim 460, wherein said guide is a roller of truncated conical configuration.*

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462. (Currently Amended) The engine of claim 432, wherein said means comprise a guide restrained by a single endless substantially sinusoidal path, one of each guide and path being on said component assembly, the other on said cylinder assembly.
463. (Original) The engine of claim 462, wherein said guide is a roller of truncated conical configuration.
464. (Original) The device of claim 431, wherein said fluid working chamber is at least partially of toroidal configuration.
465. (Original) The engine of claim 432, wherein said fluid working chamber is at least partially of toroidal configuration.
466. (Original) The device of claim 431, wherein said housing comprises insulating material for purpose of reducing heat loss from said fluid working chamber.
467. (Original) The engine of claim 432, wherein said housing comprises insulating material for purpose of reducing heat loss from said fluid working chamber.
468. (Original) The device of claim 431, wherein said component assembly consists of one monolithic piece.
469. (Currently Amended) The device of claim 431, wherein said component assembly has a projecting portion which at least partly penetrates a portion of said cylinder assembly during at least part of said cycle.
470. (Currently Amended) The engine of claim 432, wherein said component assembly has a projecting portion which at least partly penetrates a portion of said cylinder assembly during at least part of said cycle.
471. (Currently Amended) A rotatable shaft, a mechanism and device for the working of fluids in cycles, said device comprising a housing with a cylinder assembly mounted therein, at least one component assembly mounted to reciprocate within said cylinder assembly, said cylinder assembly having at least one working surface and said component assembly having at least one second working surface such that said working surfaces in operation are approximately parallel at least one time each cycle and are co-axial and variably spaced, said surfaces partly defining at least one fluid working chamber varying in capacity during an operating cycle of said device, each of said

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surfaces being of endless wave-like configuration to permit and limit said component assembly and said second surface to both reciprocate and rotate relative to said cylinder assembly and said first surface, said device including structure which defines a volume substantially surrounding said cylinder assembly, in operation said volume functioning as a passage for fluids worked by said device.

472. (Original) *The device of claim 471, said cylinder assembly being rotatably mounted in said housing.*
473. (Currently Amended) *A reciprocating internal combustion engine, including (a fuel delivery system, an exhaust emission control system and) the device of claim 471, said engine having a system for supplying charge and fuel to said working chamber.*
474. (Original) *The engine of claim 473, said cylinder assembly being rotatably mounted in said housing.*
475. (Original) *A compound engine comprising the engine of claim 473, at least one other engine of another type, and a second means for transferring work between each of said at least two engines.*
476. (Currently Amended) *The compound engine of claim 475, wherein said second means includes the flow of heated gases in a conduit between said engines.*
477. (Original) *The device of claim 471, wherein said component assembly defines a passage for fluids worked by said device.*
478. (Cancelled) *Claim 478 is cancelled.*
479. (Original) *The engine of claim 473, wherein said component assembly defines a passage for fluids worked by said device.*
480. (Cancelled) *Claim 480 is cancelled.*
481. (Original) *The engine of claim 479, including filamentary material within said passage.*
482. (Original) *The engine of claim 473, including filamentary material within said volume.*
483. (Original) *The engine of claim 481, wherein said filamentary material is catalytic to expedite*

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reactions between portions of the working fluids.

484. (Original) *The engine of claim 482, wherein said filamentary material is catalytic to expedite reactions between portions of the working fluids.*
485. (Original) *The device of claim 471, including insulating material at least partially encasing said device for purpose of reducing heat loss from said fluid working chamber.*
486. (Original) *The engine of claim 473, wherein said cylinder assembly is formed at least in part of ceramic material.*
487. (Original) *The device of claim 471, wherein said cylinder assembly is formed at least in part of ceramic material.*
488. (Original) *The device of claim 471, wherein said component assembly is formed at least in part of ceramic material.*
489. (Original) *The device of claim 471, wherein said component assembly has a first distinct surface and said cylinder assembly a second distinct surface, in operation said distinct surfaces being approximately constantly spaced from and approximately parallel to one another, at least one of said distinct surfaces defining at least one manufactured depression in operation wholly fillable by fluids worked by said device.*
490. (Original) *The device of claim 471, wherein said cylinder assembly is comprised of portions including at least one element, each said element holding said portions together and being pre-loaded under tension.*
491. (Original) *The device of claim 490, wherein said element is of tubular form.*
492. (Original) *The device of claim 471, wherein said component assembly is comprised of portions including at least one element, each said element holding said portions together and being pre-loaded under tension.*
493. (Original) *The device of claim 492, wherein said element is of tubular form.*
494. (Cancelled) *Claim 494 is cancelled.*

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495. (Original) *The engine of claim 473, wherein said component assembly is formed at least in part of ceramic material.*
496. (Original) *The engine of claim 494, including at least one electrical circuit within said ceramic material.*
497. (Original) *The engine of claim 495, including at least one electrical circuit within said ceramic material.*
498. (Currently Amended) *The rotatable shaft, mechanism and device of claim 553, in which work is transferred from said device to said shaft in said mechanism (comprises) by a series of splines slidably mounted on another series of splines.*
499. (Currently Amended) *The rotatable shaft, mechanism and device of claim 553 including rollers, in which work is transferred from said device to said shaft in said mechanism (comprises) by a series of flanges slidably mounted on another series of flanges, said two series of flanges being separated by said rollers.*
500. (Currently Amended) *The rotatable shaft, mechanism and device of claim 553, wherein work is transferred from said device to said shaft in said mechanism (comprises) by at least one bellows.*
501. (Currently Amended) *The rotatable shaft, mechanism and device of claim 553, wherein work is transferred from said device to said shaft in said mechanism (comprises) by at least one hinged element.*
502. (Original) *The device of claim 471, wherein said fluid working chamber is at least partially of toroidal configuration.*
503. (Original) *The engine of claim 473, wherein said fluid working chamber is at least partially of toroidal configuration.*
504. (Original) *The device of claim 472, wherein said housing comprises insulating material for purpose of reducing heat loss from said fluid working chamber.*
505. (Original) *The engine of claim 474, wherein said housing comprises insulating material for purpose of reducing heat loss from said fluid working chamber.*

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506. (Original) *The device of claim 471, wherein said component assembly consists of one monolithic piece.*
507. (Currently Amended) *The device of claim 471, wherein said component assembly has a projecting portion which at least partly penetrates a portion of said cylinder assembly during at least part of said cycle.*
508. (Currently Amended) *The engine of claim 473, wherein said component assembly has a projecting portion which at least partly penetrates a portion of said cylinder assembly during at least part of said cycle.*
509. (Currently Amended) (A) *An uncooled device for the working of fluids, said device comprising a housing (with) substantially surrounding a cylinder assembly mounted therein, at least one component mounted to reciprocate within said cylinder assembly, said cylinder assembly having at least one working surface and said component having at least one second working surface such that said working surfaces in operation are approximately parallel and co-axial and variably spaced, said surfaces partly defining at least one fluid working chamber varying in capacity during an operating cycle of said device, means deployed between said cylinder assembly and said component to cause said component and said second surface to rotate while reciprocating relative to said cylinder assembly and said first surface, said housing including substantial insulating material for purpose of reducing heat loss from said fluid working chamber.*
510. (Original) *The device of claim 509, said cylinder assembly being rotatably mounted in said housing.*
511. (Currently Amended) *A reciprocating internal combustion engine, including (a fuel delivery system, an exhaust emission control system and) the device of claim 509, said engine having a system for supplying charge and fuel to said working chamber.*
512. (Original) *The engine of claim 511, said cylinder assembly being rotatably mounted in said housing.*
513. (Original) *A compound engine comprising the engine of claim 511, at least one other engine of another type, and a second means for transferring work between each of said at least two engines.*
514. (Currently Amended) *The compound engine of claim 513, wherein said second means includes the flow of heated gases in a conduit between said engines.*

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515. (Original) *The device of claim 509, wherein said component assembly defines a passage for fluids worked by said device.*
516. (Original) *The device of claim 509, including structure which defines a volume substantially surrounding said cylinder assembly, in operation said volume functioning as a passage for fluids worked by said device.*
517. (Original) *The engine of claim 511, wherein said component assembly defines a passage for fluids worked by said device.*
518. (Original) *The engine of claim 511, including structure which defines a volume substantially surrounding said cylinder assembly, in operation said volume functioning as a passage for fluids worked by said device.*
519. (Original) *The engine of claim 517, including filamentary material within said passage.*
520. (Original) *The engine of claim 518, including filamentary material within said volume.*
521. (Original) *The engine of claim 519, wherein said filamentary material is catalytic to expedite reactions between elements of the working fluids.*
522. (Original) *The engine of claim 520, wherein said filamentary material is catalytic to expedite reactions between elements of the working fluids.*
523. (Original) *The engine of claim 511, including secondary insulating material at least partially encasing said device for purpose of reducing heat loss from said fluid working chamber.*
524. (Original) *The engine of claim 511, wherein said cylinder assembly is formed at least in part of ceramic material.*
525. (Original) *The device of claim 509, wherein said cylinder assembly is formed at least in part of ceramic material.*
526. (Original) *The device of claim 509, wherein said component assembly is formed at least in part of ceramic material.*
527. (Original) *The device of claim 509, wherein said component assembly has a first distinct surface*

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and said cylinder assembly a second distinct surface, in operation said distinct surfaces being approximately constantly spaced from and approximately parallel to one another, at least one of said distinct surfaces defining at least one manufactured depression in operation wholly fillable by fluids worked by said device.

528. (Original) *The device of claim 509, wherein said cylinder assembly is comprised of portions including at least one element, each said element holding said portions together and being pre-loaded under tension.*
529. (Original) *The device of claim 528, wherein said element is of tubular form.*
530. (Original) *The device of claim 509, wherein said component assembly is comprised of portions including at least one element, each said element holding said portions together and being pre-loaded under tension.*
531. (Original) *The device of claim 530, wherein said element is of tubular form.*
532. (Original) *The engine of claim 512, wherein said cylinder assembly is formed at least in part of ceramic material.*
533. (Original) *The engine of claim 511, wherein said component assembly is formed at least in part of ceramic material.*
534. (Original) *The engine of claim 532, including at least one electrical circuit within said ceramic material.*
535. (Original) *The engine of claim 533, including at least one electrical circuit within said ceramic material.*
536. (Currently Amended) *The rotatable shaft, mechanism and device of claim 554, in which work is transferred from said device to said shaft in said mechanism (comprises) by a series of splines slidably mounted on another series of splines.*
537. (Currently Amended) *The rotatable shaft, mechanism and device of claim 554 including rollers, in which work is transferred from said device to said shaft in said mechanism (comprises) by a series of flanges slidably mounted on another series of flanges, said two series of flanges being separated by said rollers.*

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538. (Currently Amended) *The rotatable shaft, mechanism and device of claim 554, wherein work is transferred from said device to said shaft in said mechanism (comprises) by at least one bellows.*
539. (Currently Amended) *The rotatable shaft, mechanism and device of claim 554, wherein work is transferred from said device to said shaft in said mechanism (comprises) by at least one hinged element.*
540. (Currently Amended) *The device of claim 509, wherein said means comprise a guide restrained by a single endless substantially sinusoidal path, one of each guide and path being on said component assembly, the other on said cylinder assembly.*
541. (Original) *The device of claim 540, wherein said guide is a roller of truncated conical configuration.*
542. (Currently Amended) *The engine of claim 511, wherein said means comprise a guide restrained by a single endless substantially sinusoidal path, one of each guide and path being on said component assembly, the other on said cylinder assembly.*
543. (Original) *The engine of claim 542, wherein said guide is a roller of truncated conical configuration.*
544. (Original) *The device of claim 509, wherein said fluid working chamber is at least partially of toroidal configuration.*
545. (Original) *The engine of claim 511, wherein said fluid working chamber is at least partially of toroidal configuration.*
546. (Cancelled) *Claim 546 is cancelled.*
547. (Original) *The engine of claim 512, including secondary insulating material at least partially encasing said device for purpose of reducing heat loss from said fluid working chamber.*
548. (Original) *The device of claim 509, wherein said component assembly consists of one monolithic piece.*
549. (Currently Amended) *The device of claim 509, wherein said component assembly has a projecting portion which at least partly penetrates a portion of said cylinder assembly during at least part of*

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said cycle.

550. (Currently Amended) The engine of claim 511, wherein said component assembly has a projecting portion which at least partly penetrates a portion of said cylinder assembly during at least part of said cycle.

551. (Cancelled) Claim 551 is cancelled.

552 (Original) The device of claim 390 including a mechanism and a rotatable shaft, said shaft linked to said component assembly by said mechanism such that said shaft only rotates while said component assembly reciprocates and rotates.

553 (Original) The device of claim 471 including a mechanism and a rotatable shaft, said shaft linked to said component assembly by said mechanism such that said shaft only rotates while said component assembly reciprocates and rotates.

554 (Original) The device of claim 509 including a mechanism and a rotatable shaft, said shaft linked to said component assembly by said mechanism such that said shaft only rotates while said component assembly reciprocates and rotates.

END OF CLAIMS

Document edited December 8 2004 in response to Office communication mailed June 9 2004. Claim status identifiers added January 19 2005, amended on March 25 2005 in response to request from USPTO legal Instruments Examiner. On May 23, the December 8th re-numbering of the last three claims was withdrawn. On July 12, the status identifiers were corrected.